The smelting of

S/133/62/000/005/004/008 A054/A127

pouring is limited by the shortness of the secondary cooling sector (6.5m), where the metal solidifies. The rimming of the steel in the mold, in case of medium--carbon grades, can be promoted by adding aluminum, in the case of medium-carbon grades by blowing oxygen into the metal stream after the intermittent ladle. The macrostructure of continuously poured, electro-smelted steels was studied with 10 templates taken from 67 heats. Due to the low iron content and inadequate duition of aluminum in the ladle, the metal with a carbon content above 0.13% rims weakly in the mold and much too thin a skin forms. In this case, blowing oxygen will intensify rimming and a normal skin, 10 - 25 mm thick, will be obtained. Other defects often encountered in this kind of ingots are blisters in the skin, 0.5 - 3.0 mm in diameter, at a depth of 1 - 5 mm below the surface, and also beads and lateral and longitudinal cracks. Lateral cracks can be prevented by closely controlling the metal oxidation and improving the mold-coating. Longitudinal cracks are less frequent, mainly owing to the delayed shrinkage of the thinned sectors of the solidifying skin in the mold. Rimming steel ingots are hot-rolled on the 1200-mm mill, with universal roughing, two-high stand and reversing-inishing four-high stand, with coils heated in the furnace. To promote the sintering of gas-blisters, the reductions are increased (170 x 1040 mm slabs are reduced with 9 passes instead of 11. 150 x 620 mm slabs with 5 passes instead of 7). Card 4/5

The smelting of

S/133/62/000/005/004/008 A054/A127

The slab-heating temperature was raised from 1260 - 1270 to 1280 - 1310°C. Sheets, 13 - 14 mm and 2 - 3 mm thick are rolled from these slabs. At the "Zaporozhstal" Plant the rate of consumption of the metal charge was 1.262 ton/ton of flawless product in 1960; for the new process this parameter was 1.127 - 1.135 ton/ton of flawless product. Smelting time was reduced to 4 ½ hours; the electric power required is 500 - 550 kW-h/ton of flawless steel. The application of minimum 80-ton capacity electric furnaces and continuous pouring is advisable where cheap open-hearth scrap and electric power are available. This increases production by 8 - 12% with a minimum capital outlay. There are 3 figures. The reference to the English-language publication reads as follows: Reinartz, L., Barnes, H.,

Card 5/5

5/148/63/000/001/004/019 E071/E151

AUTHORS:

Gankin, V.B., and Oyks, G.N.

TITLE:

The mechanism of crystallisation of rimming steel

during continuous casting

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,

Chernaya metallurgiya, no.1, 1963, 34-41

The crystallisation front in a continuously cast ingot TEXT: was investigated. The position of the front in continuous casting was determined by three methods: 1) by emptying the remaining liquid from the ingot (the structure of the steel skin was studied after a break out in the region of the secondary cooling); 2) by introduction of radioactive phosphorus during casting and subsequent radiography of the ingot cross-section; 3) by introduction of sulphur during casting with subsequent sulphur prints of longitudinal and transverse section. It was confirmed by a the above methods that the formation of gas bubbles (subsequent It was confirmed by all blow-holes) takes place at the solid-liquid interface. The bubbles open towards the liquid centre of the ingot. In the transverse section of the skin the bubbles increase in volume as solidification Card 1/3

The mechanism of crystallisation... S/148/63/000/001/004/019 E071/E151

progresses. An increase in the teeming velocity (for steel containing 0.14-0.22% C) leads to a decrease in the length and diameter of the bubbles and the width of the bubble zone. From literature data and the results obtained, the probable mechanism of the formation of continuously cast rimming steel ingots (of different carbon contents) was postulated. In the region of the crystalliser there are two distinct cooling zones - an upper (from 50 to 300 mm) with a high rate of heat removal (1.2-1.6 \times 106 kcal per m²hr) and a lower where, due to the greater thickness of the skin and greater clearance between the skin and mould walls, the rate of heat removal is lower (0.2-0.4 x 10⁶ kcal/m²hr). In the upper zone the rate of crystallisation is high, the thickness of the skin is non-uniform (due to differences in the contact between the skin and mould walls and the scouring action of the falling stream). Occasionally, when the velocity of crystallisation exceeds the rate of bubble growth, some bubbles are trapped in the skin. With increasing amounts of solid, the crystallisation velocity decreases, and the ascending currents of gas and metal flush out the bubbles and the metal enriched in segregates from Card 2/3

The mechanism of crystallisation... \$/148/63/000/001/004/019 E071/E151

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the internal surface of the skin, so promoting the formation of a. dense skin. In ingots containing 0.14-0.22% C the formation of bubbles begins in the lower part of the crystalliser, while in ingots containing 0.06-0.10% C this takes place later in the region of secondary cooling. The formation of the bubble zone is influenced by the ferrostatic pressure of the liquid steel, so that in steel containing 0.14-0.22% C bubble growth stops earlier and the bubbles are short, while in low carbon steel the bubble length depends mainly on the degree of oxidation. The influence of the degree of oxidation on the shape of the bubble zone and the density of the central zone is briefly discussed. There are 6 figures.

ASSOCIATION: TsNIIChM i Moskovskiy institut stali i splavov

(TsNIIChM and the Moscow Institute of Steel and

Alloys)

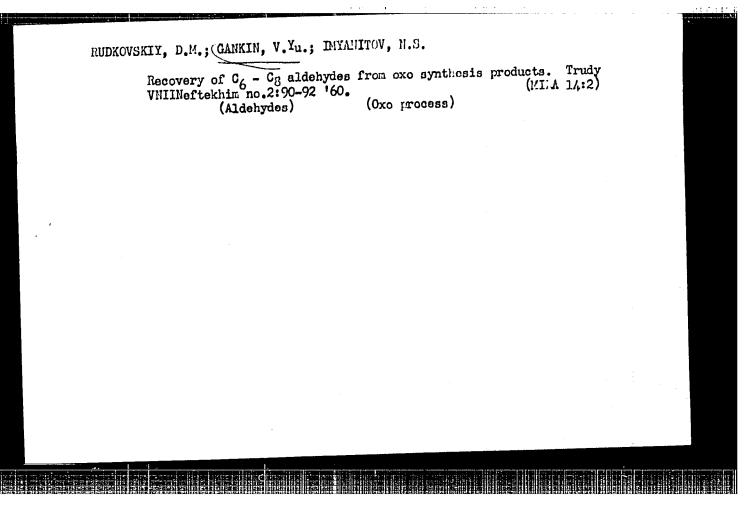
SUBMITTED: October 6, 1962

Card 3/3

GANKIN, V.B.; SLIVCHANSKAYA, V.V.; ITSKOVICH, G.M.; OYKS, G.N.

Primary structure of a continuous ingot of rimmed steel. Izv. vys. ucheb. zav.; chern. met. 6 no.9:62-67 '63. (MIRA 16:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii i Moskovskiy institut stali i splavov.



RUDKOVSKIY, D.M.; IMYANITOV, N.S.; GAIKIE, V.Yu.

Conversions of Lexafluoropropylene under conditions of exa synthesis.

Trudy VIIIIIIeftelchim no.2:121-124 '60. (EIRA 14:2)

(Propene) (Oxo process) (Fluorine organic compcunds)

L 34001-65 EWI(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM S/0204/65/005/001/0058/0061 S/0204/65/005/001/0058/0061 AUTHOR: Gankin, V. Yu.; Rozovskiy, A. Ya; Rudkovskiy, D. M.
TITLE: The mechanism of formation of a catalyst for the hydrogognalation reaction from cobalt salts
SOURCE: Neftekhimiya, v. 5, no. 1, 1965, 58-61 TOPIC TAGS: hydroformylation, cobalt carbonyl, hydroformylation catalyst, co-balt naphthene, carbon monoxide
ABSTRACT: A mechanism is proposed for the formation of cobalt carbonyl catalysts from Co salts during the oxo-reaction (hydroformylation of olefins). Kinetic analysis and experimental studies confirmed that the mechanism involves the reactions: [Co(CO)4]2+CO = Co2(CO)6 (1)
$[Co(CO)_{4}]_{4} + H_{4} \longrightarrow 2HCo(CD)_{4},$ $2HCo(CO)_{4} + (RCOO)_{2}Co \longrightarrow Co[Co(CO)_{4}]_{2} + 2RCODH$ $Co[Co(CO)_{4}]_{2} + 4CO \longrightarrow \frac{9}{2}[Co(CO)_{4}]_{4}$ (2)

L 34001-65

ACCESSION NR: AP5006077

Thus, formation of cobalt carbonyl from cobalt naphthene was determined in toluene solution after addition of a small amount of carbonyl at an initial total carbon monoxide hydrogen pressure of 400 atm.; this was accomplished by heating the mix ture to 95C for 30 min. in an autoclave, analyzing the liquid and gaseous reaction products and measuring the decrease of pressure with time. The equilibrium constant for reaction (1), i.e. the reversible formation of column acarbonyl from octacarbonyl and carbon monoxide, and the rate constant for formation of callyt. cally active hydrocarbonyl (reaction 2) were derived. A limear relationship between PH2/K and PGO was predicted from the kinetic analysis in agreement with experimental results, K being a reaction constant which can be calculated from experimental values and P_{H2} and P_{CO} being the partial pressures of hydrogen and car-bon monoxide, respectively. Reaction (1) and the formation of cobalt nonacarbonyl explains the inhibitory effect of carbon monoxide on the hydroform latton reaction Orig. art. has: 3 tables, 2 figures and 9 formulas.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut neftelhimicheskikh protsessov (All-union petrochemical processes scientific research institute)

SUBMITTED: 24Dec63

NO REF SOV: 003

2/2

ENCL: 00

SUB CODI:

OTHER: 003

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000614220017-8"

GANKIN, V.Yu.; KRINKIN, b.P.; RUDKOVSKIY, D.M.; TRIFEL', A.C.

Effect of the temperature of formation of metallic cobalt on its reaction capacity in the process of carbonyl formation. Khim. it tekh. topl. i masel 10 no.10:11-14 0 '65. (MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhim-icheskikh protsessov.

GANKIN, V.Yu.; KRINKIN, P.F.; RUDEOVCKIY, C.M.

Kinetics of transformation of dicchalteoctacarboxy) to combail hydrocarbinol in the liquid phase. Zhur.ob.khim. 35 no.12:2127-2130 D 165.

1. Submitted December 17, 1964.

S/218/63/028/001/001/002 B144/B186

AUTHORS:

Reznichenko, M. S. (Deceased), Rydalevskiy, Ye. Ye., and

Gankina, E. S.

TITLE:

Structural changes of gliadin caused by gamma irradiation of

wheat grains

PERIODICAL:

Biokhimiya, v. 28, no. 1, 1963, 52-56

TEXT: Grains of Erythrospermum 841 wheat containing 10-26% moisture were irradiated in vivo with 10.10 and 20.10 r. Then gliadin was extracted and the N-terminal radicals were determined. The dinitrophenolated (DNP) amino acids were separated by paper chromatography into: 1) borate buffer (pH 9) - n-butyl alcohol - ethyl alcohol - isoamyl alcohol, ratio (pH 9) - n-butyl alcohol saturated with phosphate buffer (pH 6.2); 6:4:1:4; 2) isoamyl alcohol saturated with phosphate buffer (pH 6.2); 5) phenol saturated with water. The following N-terminal amino acids were identified: aspartic and glutamic acids, serine (by additional separation into n-butyl alcohol - butyl acetate - 1% NH₄OH, ratio 1:2:3), threonine, lysine, phenyl alanine, and leucine. The quantitative spectrophotometric

Card 1/2

Structural changes of gliadin ...

S/218/63/028/001/001/002 B144/B186

analysis of the DNP derivatives of glutamic and aspartic acids and of serine in 1 and 3 showed a significant reduction in the irradiated samples. The content of N-terminal amino acids decreased linearly with increasing irradiation dose; this is attributed to deamination of their α amino groups. The sedimentation coefficient was determined in a 1% solution of gliadin in 50% aqueous solution of dimethyl formamide. Then the molecular weight was calculated from the formula of V.G. Aldoshin and S.Ya. Frenkel' (Vysokomolekul. soyedineniya 4, 116, 1962). It was 68,400 for nonirradiated gliadin, 72,000 for gliadin containing 10% moisture and irradiated with 10·10 r, and 55,000 for gliadin containing 25% moisture and irradiated with 20·10 r. In the same order, the intrinsic viscosities were 0.3, 0.336, and 0.195. The degradation of the protein molecules is due to the splitting of peptide bonds by free radicals forming in a moist medium on γ-irradiation. There are 2 figures and 3 tables.

ASSOCIATION: Tekstil'nyy institut im. S.M. Kirova, Leningrad (Textile

Institute imeni S.M. Kirov, Leningrad)

SUBMITTED:

April 13, 1962

Card 2/2

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000614220017-8 经全国基金环境的复数形式 (1912年) 17年6月 集份中的过去式和复数形式 经经济股份 经经济股份 医克拉斯氏征 (1912年) 1915年 1915

SOV-21-58-9-15/28

AUTHORS:

Abramova, T.M., Gankina, I.L. and Fomenko, A.S.

TITLE:

Investigation of Cathode Reduction of Oxygen to Hydrogen Peroxide on a Coal-Nickel Electrode (Issledovaniye katodnogo vosstanovleniva kisloroda do perekisi vodoroda na ugolino-

nikelevom elektrode)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 9, pp 974 - 976 (USSR)

ABSTRACT:

The process of cathode reduction of oxygen is used in technical production of hydrogen peroxide. However, the mechanism of the reaction which takes place in this process has not been explained thus far. The authors employed the heavy in order to clarify the origin of oxygen in hydrogen peroxide, which forms on a coal-nickel cathode in the oxygen reduction. As a result of this investigation it was shown that only molecular oxygen blown through the electrode plays a part in the cathode formation of hydrogen peroxide, but not the oxygen of water. These findings are in agreement with the concept of A,N. Frumkin that hydrogen peroxide

Card 1/2

CIA-RDP86-00513R000614220017-8" **APPROVED FOR RELEASE: 09/17/2001**

SOV-21-58-9-15/28

Investigation of Cathode Reduction of Oxygen to Hydrogen Feroxide on a 'Coal-Nickel Electrode

formation is due to "newly"-adsorbed oxygen. There are 2 diagrams, 1 table and 10 references, 7 of which are Sov-

iet, 2 English and 1 American.

ASSOCIATION: Institut fizicheskoy khimii imeni L.V. Pisarzhevskogo

AN UkrSSR (Institute of Physical Chemistry im. L.V. Pisar -

of the AS UkrSSR) zhevskiy

PRESENTED:

By Member of the AS UkrSSR, A.I. Brodskiy

SUBMITTED:

April 21, 1958

NOTE:

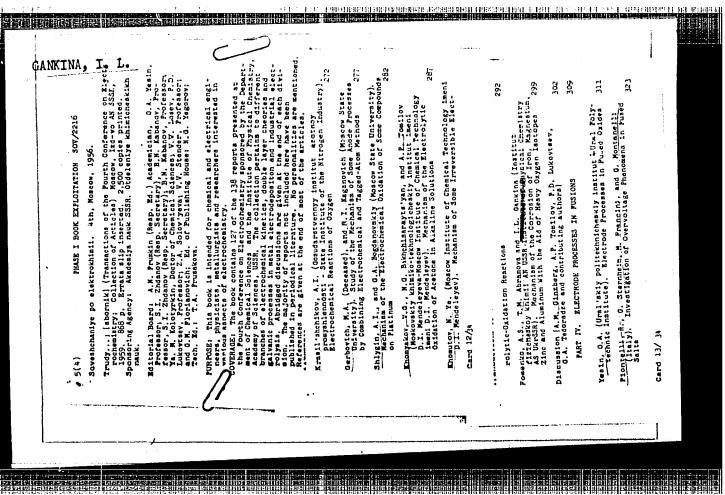
Russian title and Russian names of individuals and institutions appearing in this article have been used in the

transliteration

1. Oxygen--Reduction 2. Hydrogen peroxide--Production

3. Electrolysis

Card 2/2



CIA-RDP86-00513R000614220017-8 "APPROVED FOR RELEASE: 09/17/2001

5 (4), 18 (7)

05821

AUTHORS:

Fomenko, A. S., Abramova, T. M.,

sov/76-33-10-22/45

Gankina, I. L.

TITLE:

An Investigation of Metal Corrosion With the Help of the Heavy

Oxygen Isotope. II. Moist Atmospheric Corrosion of Cadmium

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 10, pp 2249 - 2252 PERIODICAL: (USSR)

In previous articles (Refs 1,2) the corrosion of iron and magne-ABSTRACT:

sium was investigated by means of the heavy oxygen isotope, and it was shown that there was an electrochemical mechanism with oxygen depolarization. In this article the authors investigated the moist atmospheric corrosion of cadmium by the same method and made experiments on the oxygen exchange of the corrosion

products of cadmium (Cd(OH)2) with H2018. The latter indicated

that no exchange took place within 60 hours (Table 1). Since investigations with the help of cadmium filings of the sort KD-0 failed, experiments were made by means of cadmium plating applied to a quartz tube (inner side). 3% NaCl solution served as corrosion liquid which was poured into the tube in a definite

Card 1/3

quantity together with oxygen at atmospheric pressure. The

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000614220017-8"

05824
An Investigation of Metal Corrosion With the Help of SOV/76-33-10-22/45
the Heavy Oxygen Isotope. II. Moist Atmospheric Corrosion of Cadmium

content of 0¹⁸ in the resultant water and gaseous oxygen was determined by mass spectrometric analysis (Ref 3). Experiments were made with the aid of natural water in heavy oxygen atmosphere as well as with H₂0¹⁸ in a common oxygen atmosphere. Results of measurement (Table 2) concerning the distribution of old among water, gaseous oxygen and corrosion products indicate that cadmium corrodes according to two parallel mechanisms, i.e. an electrochemical mechanism with oxygen depolarization (as has already been observed by Feitknecht, Wyler (Ref 5), Ya. M. Kolotyrkin and L. A. Medvedeva (Ref 6)) and a chemical mechanism. Kolotyrkin and L. A. Medvedeva (Ref 6) and a chemical mechanism of copper corrosion have shown that the exchange of Cu(OH)₂ oxygen with water is equilibrated after 48 hours. Accordingly, the afore-mentioned method cannot be applied here. In cordingly, the authors thank Academician A. I. Brodskiy for his conclusion, the authors thank Academician A. I. Brodskiy for his help. There are 2 tables and 7 references, 6 of which are Soviet.

Card 2/3

05824

An Investigation of Metal Corrosion With the Help of SOV/76-33-10-22/45 the Heavy Oxygen Isotope. II. Moist Atmospheric Corrosion of Cadmium

ASSOCIATION: Akademiya nauk USSR, Institut fizicheskoy khimii im. L. V.

Pisarzhevskogo, Kiyev (Academy of Sciences of the UkrSSR, Institute of Physical Chemistry imeni L. V. Pisarzhevskiy,

Kiyev)

SUBMITTED: March 21, 1958

Card 3/3

18.8300 5.2600(A) 67265

5(4), 5(2)

507/20-129-4-29/68

AUTHORS:

Abramova, T. M., Gankina, I. L., Fomenko, A. S.

TITLE:

The Mechanism of Hydrogen Peroxide Formation in the Corrosion

of Metals

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 4, pp 820-823

(USSR)

ABSTRACT:

The authors set themselves the task of finding an answer to the following question: Is the hydrogen peroxide which is formed as an intermediate in the corrosion of metals caused by water and air formed from oxygen of the air, from that of water, or from the oxygen of both? As, according to reference 10, $\rm H_2O_2$ is formed as an intermediate in the cathodic reduction of 0, and 0 is depolarized also in the corrosion of metals in air, the formation of $\rm H_2O_2$ from the 0 in air was probable. In that case its isotopic composition would have to correspond to that of gasepus 0. This was checked by the authors by means of $\rm O^{18}$ which was either added to the 0 blown through the solution cor-

Card 1/4

roding the metal, or was admixed to the solution as H_2O_2 . The

67265 SOV/20-129-4-29/68

The Mechanism of Hydrogen Peroxide Formation in the Corrosion of Metals

approach of the isotopic composition of the $\rm H_2O_2$ formed to that of gaseous O was actually observed by the authors in the corrosion of Zn, Mg, Sn, Al, and Cd in aqueous solution of $\rm H_2O_2$ and during the blowing through of O. The experiments were made in the dark at room temperature and took 1 - 24 hours. The $\rm H_2O_2$ content of the solution was then determined by means of permanganate (in the case of Zn and Cd the insoluble peroxides were dissolved by acidification) and the isotopic composition of $\rm H_2O_2$ was determined by means of a mass spectrometer. Table 1 shows that in the experiments with $\rm H_2O_2^{18} + O_2^{16}$ the $\rm O^{18}$ content decreases in the $\rm H_2O_2$ analyzed after the experiment is ended, whereas it increases in the experiments made with $\rm H_2O_2^{16} + O_2^{18}$. The $\rm H_2O_2$ is thus produced from air-oxygen. A rough calculation of the isotopic composition of $\rm H_2O_2$ to be expected, carried out, as an example, on Zn, showed a difference of 13% if compared

Card 2/4

67265

501/20-129-4-29/68

The Mechanism of Hydrogen Peroxide Formation in the Corrosion of Metals

with the experimental result. Also the differences found in experiments with other metals are of the same order of magnitude. The following causes are assumed to be responsible: 1) Part of the H2O2 formed is immediately again catalytically decomposed by the metal. 2) The O liberated in this decomposition partly again enters into reaction accompanied by the formation of H2O2. Attempts at stabilizing the H2O2 formed by additions of oxyquinoline, sodium pyrophosphate, sodium silicate etc. were unsuccessful. The authors refer to published data, according to which there is no exchange between the oxygen of H2O2 and of air under the prevailing experimental conditions (Refs 14,15), which they were able to confirm by control tests. Thus, as no side-reactions occur, the results obtained by the authors prove that the H2O2 is produced in the corrosion of metals from the oxygen in the air. It is finally mentioned that the authors thank A. I. Brodskiy, Academician of the AS UkrSSR, for supervising the investigations, and Engineer I. M. Protas for the mass-spectrometrical analyses

Card 3/4

67265

SOV/20-129-4-29/68

The Mechanism of Hydrogen Peroxide Formation in the Corrosion of Metals

carried out. There are 1 table and 16 references, 3 of which

are Soviet.

ASSOCIATION: Institut fizicheskoy khimii im. L. V. Pisarzhevskogo Akademii

nauk USSR (Institute of Physical Chemistry imeni L. V.

Pisarzhevskiy of the Academy of Sciences, UkrSSR)

PRESENTED: July 13, 1959, by A. N. Frumkin, Academician

SUBMITTED: July 13, 1959

Card 4/4

33490

5/195/61/002/005/015/027

E111/E485

//,/3/0 AUTHORS:

Fomenko, A.S., Gankina, I.L., Avramova, T.M.

TITLE :

Study of the mechanism of the decomposition of hydrogen peroxide on activated charcoal by the

isotope method

PERIODICAL: Kinetika i kataliz, v.2, no.5, 1961, 732-736

TEXT: The decomposition of hydrogen peroxide on activated charcoal was studied by many authors but their assumptions on the mechanism of this process are in contradiction. In the present work the mechanism was studied using 010 introduced into the charcoal oxides (with H₂O₂ of the natural isotope composition) or into the H₂O₂ (with ordinary oxygen charcoal). The isotope compositions of the charcoal oxides and of gaseous oxygen were determined to evaluate the mechanism. The 010-containing charcoal was prepared by grinding the commercial charcoal type (BAU), de-ashing with acid, washing, drying and activating in CO₂ at 800°C for 6 hours and 1000°C for 3 hours; after this, the material was treated with hydrogen at 1000°C (which was then pumped off at 600 to 650°C), cooled in oxygen-free nitrogen, treated at room temperature with 010-enriched gaseous oxygen and Card 1/4

33490

S/195/61/002/005/015/027 E111/E485

Study of the mechanism ...

The procedure for preparing stored in heavy-oxygen water vapour and storing ordinary oxygen-charcoal was identical but ordinary oxygen and water vapour were used. Special experiments were carried out in which charcoal containing ordinary oxygen was treated with heavy-oxygen water vapour whose final isotope content was then determined, or charcoal containing 018 was treated with ordinary water, filtered off and its isotope composition determined by mass spectrometry on the CO2 obtained by de gassing at 300 to 550°C. For H2O2, mass spectrometric isotope analysis was carried out on the oxygen evolved when the peroxide was decomposed with potassium permanganate: and for water, on co_2 after exchange with the water. Results showed that there is no exchange of the oxygen of the basic oxides with water. For the main H_2O_2 decomposition experiments in a quartz tube containing 1 to 4 g of degassed charcoal was put in a furnace. One end of the tube was connected to a trap for freezing out the desorbed gases and to a vacuum installation; the other to a trap containing the required quantity of peroxide, freed from dissolved oxygen. The tube was periodically rotated. After the required time, the Card 2/4

CIA-RDP86-00513R000614220017-8

33490

\$/195/61/002/005/015/027 E111/E485

Study of the mechanism ...

water and undecomposed peroxide was distilled and the charcoal degassed as before. The CO₂ fraction, collected at 300 to 550 °C.
was analysed for 018. In some experiments the isotope composition of the oxides was determined from the water obtained during their treatment with hydrogen. Mass spectrometry revealed carbon dioxide as well as oxygen in the gaseous decomposition products. In agreement with the views of G. Brinkmann (Ref. 6: Ang. Chem., v.61, 1949, 378) the results suggest that a double decomposition type of reaction occurs between the basic OH groups in the charcoal surface and $H0^{-}_{2}$ ions of the peroxide

 C^{+}] OH" + HOOH \rightarrow C^{+}] HOO" + H₂O

 C^{+} HOOH $\rightarrow C^{+}$ OH + H_{2} O + O_{2}

The origin of CO_2 in the decomposition of H_2O_2 on charcoal is not clear since the simultaneous presence of $H_2\bar{0}$ and CO_2 , in view of the exchange between them, alters the primary CO_2 composition. The observed change in the isotope composition of oxides on charcoal cannot be attributed to further oxidation of the coal to give oxygen compounds, differing from OH groups, whose high-Card 3/4

33490 \$/195/61/002/005/015/027 E111/E485

Study of the mechanism ...

temperature decomposition could give a further quantity of CO2 with the peroxide isotope composition. No free radicals on the charcoal surface were found by the electron paramagnetic resonance method and this is contrary to the chain mechanism proposed by various authors (e.g. Ref.83 V.A.Garten, E.Epinger, D.E.Weiss, Austr. J. Appl. Sci., v.7, 1956, 149). Academician (AS UkrSSR) A.I.Brodskiy helped in the work. There are 2 tables and 12 references: 2 Soviet-bloc and 10 non-Soviet-bloc. The four most recent references to English language publications read as follows: Ref.43 A.King, J. Chem. Soc., 1936, 1688; Ref.5: E.C.Larsen, J.H.Walton, J. Phys. Chem., v.44, 1940, 70; Ref.10: B.R.Puri, L.A.Scharma, D.D.Singh, Ind. Eng. Chem., v.50., 1958, 1075; J. Ind. Chem. Soc., v.35, 1958, 765; Ref.12: M.Cohn, H.C.Urey, J. Amer. Chem. Soc., v.60, 1958, 679.

ASSOCIATION: Institut fizicheskoy khimii im. L.V.Pisarzhevskogo AN UkrSSR Kiyev (Institute of Physical Chemistry im. L.V.Pisarzhevskiy AS UkrSSR, Kiyev)

Card 4/4

FOMENKO, A.S.; ABRAMOVA, T.M.; GANKINA, I.L.

Decomposition of hydrogen peroxide in the presence of potassium iodate, bromate, and chlorate. Ukr. khim. zhur. 28 no.1:14-17 '62. (MIRA 16:8)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN UkrSSR.

GANKINA, K.L.

PHASE I BOOK EXPLOITATION

SOV/5435

69

Kiselev, P. N., Professor; G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiobiologii. t. III: Sbornik trudov, posvyashchennyy 60-letiyu so dnya rozhdeniya Professora M. N. Pobedinskogo (Problems in Radiation Biology. v. 3: A Collection of Works Dedicated to the Sixtieth Birthday of Professor M(ikhail) N(ikolayevich) Pobedinsky [Doctor of Medicine]) Leningrad.
Tsentr. n-issl. in-t med. radiologii M-va zdravookhrananiya SSSR, 1960.
422 p. 1,500 copies printed.

Tech. Ed.: P. S. Peleshuk.

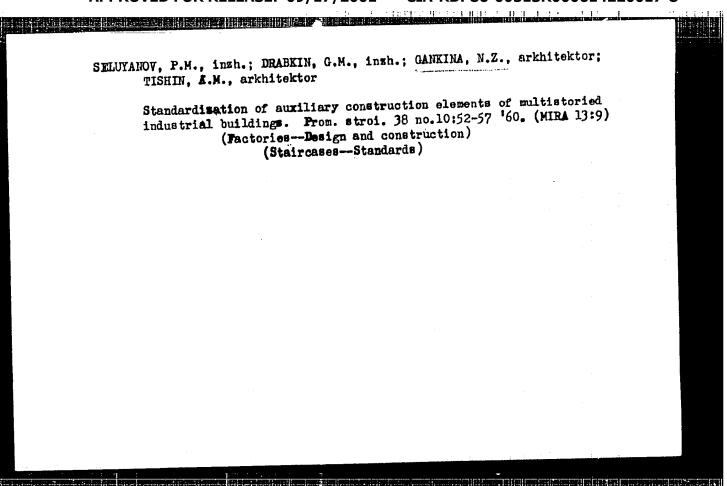
PURPOSE: This collection of articles is intended for radiobiologists.

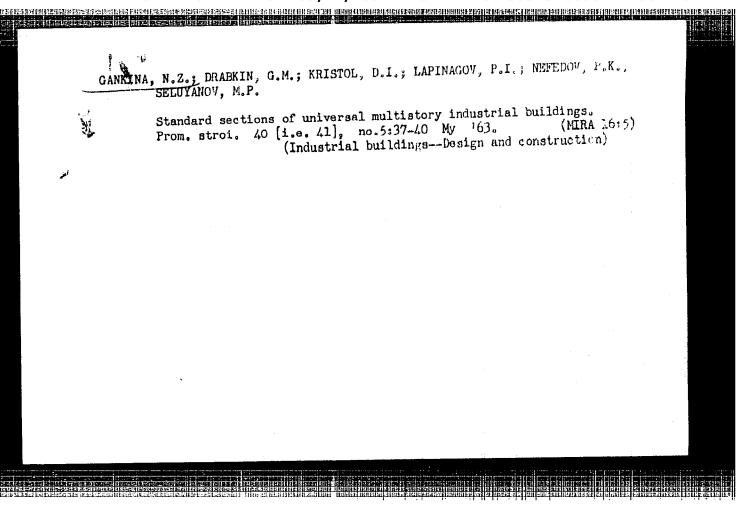
COVERAGE: The book contains 49 articles dealing with pathogenesis, prophylaxis, and therapy of radiation diseases. Individual articles describe investigations of the biological effects of radiation carried out by workers of the Central Scientific Research Institute for Medical Radiology of the Ministry of Public Health, USSR. [Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii Ministerstra zdravookhraneniya SSSR] during 1958-59. The following

Card 1/10

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	. Problems in Radiation Biology (Cont.)	80 V/ 5435	
	topics are covered: various aspects of primary effections of some metabolic processes in animals subject reactions in irradiated organisms; morphologic change and reparation and regeneration of tissues injured by articles give attention to the effectiveness of experimo personalities are mentioned. References accompany	ed to lonizing radiation, se in radiation disease; rirradiation. Some limental medical treatments.	
	TABLE OF CONTENTS:		``
1		3	
	Foreword	1) Mikalausriah	7
	Gusterin, G. A., and A. I. Strashinin. Professor Mikha Pobedinskiy (Commemorating his Sixtieth Birthday)	5	
	Lebedinskiy, A. V. [Member, Academy of Medical Sciences R. I. Arlashchenko, and V. M. Mastryukova. On the Mech Disturbances Due to Ionizing Radiation	USSR], anism of Trophic	
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	Adrenal Cortex in Acute Radiation Sickness and the Eire	ct of Desoxy-	2
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	Card 2/10	The second secon	
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		203			e
	Cankina, K. I., A. I. Strashinin, G. S. Strelin, and I. V. Shiffer.	511		,	·
	Shmeleva, N. I. Effect of Ether Anesthesia on the Regeneration Process of Hematagenesis in Rats With Combined Injuries	222		ì	
	Lyalin, Ye. A. Change in Some Aspects of the Activity of the Thyroid Flands Following Whole-Body Irradiation	231	Ę		
· · · · · · · · · · · · · · · · · · ·	yalin, Ye. A. Effect of Whole-Body Irradiation on the Proliferating Capability of Thyrcid Tissue in White Mice	236			*
	Cantin, A. V., and P. V. Sipovskiy. Formation of the Surgical Stump of Limb During Experimental Radiation Disease in Rabbits	241		:	÷
	Sard 6/10				
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SHAPIRO, A.I.; CANKINA, T.B.

Significance of hematological and immunological investigations in a clinic for nervous and mental diseases. Trudy Gos. nauch.—issl. psikhonevr. inst. nq.20:35-40'59. (MIRA 14:1)

1. Gosmdarstvennyy nauchno-issledovatel skiy psikhonevrologicheskiy institut imeni V.M. Bekhtereva, Leningrad. (BLOOD EXAMINATION)

(NERVOUS SYSTEM—DISEASES) (BLOOD EXAMINATION)

(SERUM DIAGNOSIS)

GANKINA, YE.S., REMI	ichamo, M.S.,	RYDALLVSKIY, E.H.	, (USSR)	
		Induced by Irradi		
Report presented at Moscow, 10-16 Aug 1	the 5th Int'l. 3	lochemistry Congr	ress,	

GAN'KOV, Aleksandr Aleksandrovich, nauchnyy sotr.; PLATONOV, Vladimir Erosovich, nauchnyy sotr.; TRUSKANOV, Mikhail Davydovich, nauchnyy sotr.; SHCHERBINO, Marat Nikolayevich, nauchnyy sotr.; GLADKOV, V.A., red.; BARANOV, I.A., tekhm. red.

[Handbook on hydroacoustical fish-locating apparatus] Spravochnik po rybopoiskovym gidroakusticheskim priboram. Murmansk, Murmanskoe knizhnoe izd-vo, 1961. 141 p. (MIRA 14:12)

1. Polyarnyy nauchne_issledovatel'skiy i proyektnyy institut rybnogo khozyaystva i okeanografii im. N.M.Knipovicha (for Gan'kov,
Platonov, Truskanov, Shcherbino).

(Sonar in fishing)

GANKOV. B. Utilization of high-pressure steam in the plywood industry. p. 40. (TEZHKA PROMISHLENOST Vol. 4, no. 7, 1955, Sofiya) SO: Monthly List of Mast European Accessions, (MEAL), LC, VOL. 4, No. 11, Nov. 1955, Uncl.

> CIA-RDP86-00513R000614220017-8" **APPROVED FOR RELEASE: 09/17/2001**

GANKOV, B.

GANKOV, B. Adjustment of logs for plywood. p. 29. Vol. 4, no. 8, 1955. TEKHNIKA. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4--April 1957

GANKOV, B. Mass production of parquet flooring from hardwood. p. 42.

Vol. 5, No. 8, 1956.
TECHNOLOGY
Sofiia, Fulgaria

So: East European Accession, Vol. 6, No. 2, Feb. 1957

GANKOV, B.

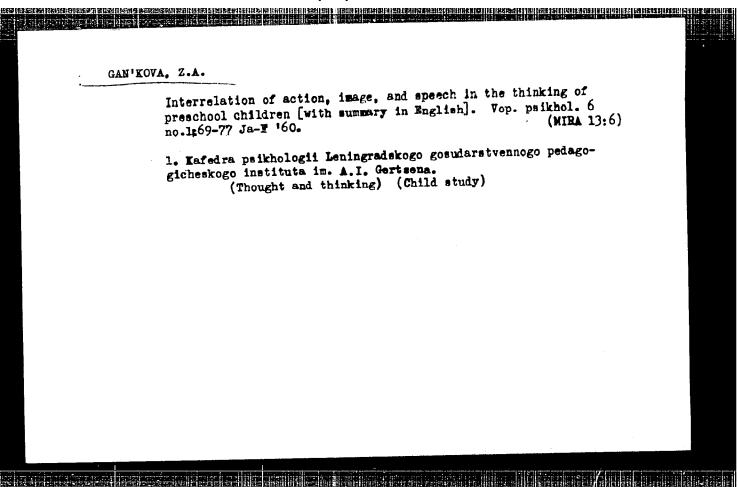
"Conditions for qualitative lengthwise gluing beech veneer together."
p.25 (Tekhnika, Vol. 6, no. 8, 1957, Sofiia, Bulgaria)

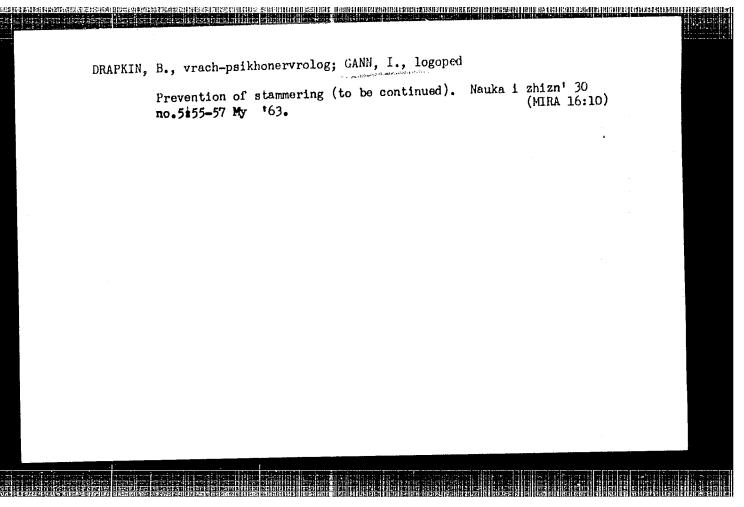
Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

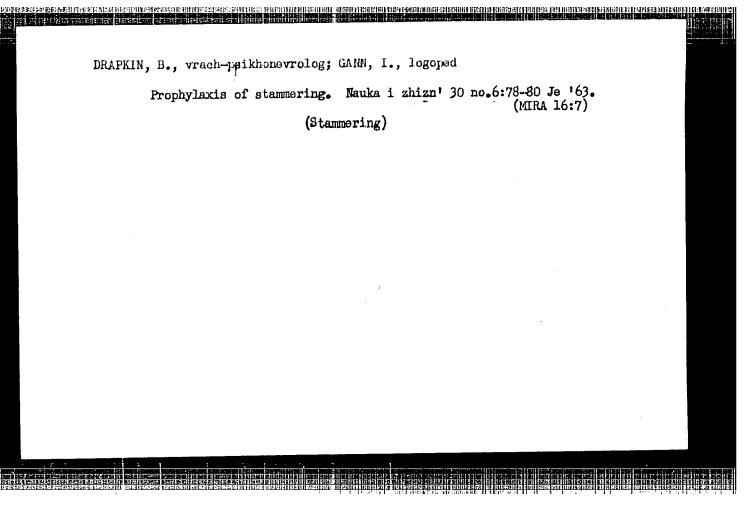
GANKOV, B., inzh., nauchen sutrudnik; CALANOV, A., inzh.

Plasticized laminated wood and press pieces of wood particles as substitutesfor metals. Durvomebel prom 7 no.2/3:18-22 Mr.Je '64.

1. NIPKIDMP, Pazardzhik (for Gankov). 2. Chief Engineer, "Furnir-Parket" State Industrial Enterprise, Sofia (for Galanov).







USSR/Engineering - Welding, Methods Mar 52

"Automatic Welding and Rapid Erection of Spherical
Storage Tanks," A.S. Fal'kovich, M.B. Gann Engineers

"Avtogen Delo"23 No 3, Mp 19-23

Describes procedure accepted for mounting petroleum storage tanks. Lobes of tank shell were
welded into large sections on specially designed
stands which permitted automatic welding under
flux for 60% of total length of welded seams.
Method considerably decreased costs of weldingmounting operations.

212725

s/196/63/000/002/012/026 E194/E155

AUTHORS:

Shpolyanskiy, Ya.A., and Gann, V.V.

TITLE:

Equipment for measuring the piezo-modulus of seignette

materials in the quasi-static condition

PERIODECAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.2, 1963, 17; abstract 2 B 85. (In collection: Segnetoelektriki, Rostov University, Rostov-on-Don,

1961, 147-151)

Instead of existing equipment for obtaining pulsating TEXT: loads, an electromagnet with a.c. supply was used and the measurements were made with an ordinary tube voltmeter. It is advantageous if the conditions of the piezo-electric under investigation are near to those of short circuit. Hence it is necessary to use an instrument of low input impedance or to diminish this latter artificially. In instrument type $\ensuremath{ \PiB-9-2}$ (LV-9-2) the input impedance is 600 kilohms so that it is quite permissible to take the equivalent resistance Req equal to the The points obtained lie very well on voltmeter resistance Card 1/2

Equipment for measuring the ... S/196/63/000/002/012/026 E194/E155

the calculated calibration curve, which confirms the possibility of the more convenient quasi-static method of determining the static value of the piezo-modulus. The accuracy of measurement then remains within the same limits as for equipment using the static method, i.e. 6%.

3 figures. 3 references.

[Abstractor's note: Complete translation.]

8/0185/64/009/003/0283/0292 ACCESSION NR: AUTHOR: Savchenko, M. A.; Gann, V. V.; Ryabko, P. V. TITLE: Bound magnetoelastic waves in antiferromagnetics SOURCE: Ukrayins'ky*y fizy*chny*y zhurnal, v. 9, no. 3, 1964, 283-292 TOPIC TAGS: magnetoelastic wave, bound magnetoelastic wave, antiferromagnetic substance, magnetostriction, spin wave propagation, sound wave propagation, spinwave-sound-wave interaction, ponderomotive interaction, magneto-accustic wave ABSTRACT: The authors determined the absorption coefficients of sound and the changes in its velocity due to magnetostriction and ponderomotor interaction in antiferromagnetics of two types: type A, when the magnetic moments are oriented, in the absence of an external magnetic field, along a selected axis, and type B, when the magnetic moments lie in a plane perpendicular to the selected axis. With sufficiently strong external magnetic fields, when the magnetic moments of the sublattices are "overthrown", the resonance coefficients of absorption and the resonance increments to the velocity of sound depend substantially on the external magnetio field.

ACCESSION	NR: AP4022699	Expression of a congress designation of the contract of the co	And the first of the second se	المراجعين المساعدات		
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UBMITTED:	02Sep63	DATE ACQ:	alia Tanan Salah Sala	ENCL:	00	
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SAVGHENRO, M.A.; GrNN, V.V. [Hann, V.V.]; RYABRO, P.V.

Bound magnetoelastic vaves in antiferromagnetic substances.
Ukr. fiz. zhur. 9 no.3:233-292 Mr '64. (MIRA 17:9)

1. Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov.

I 34547-65 EWT(1)/EPA(s)-2 Pt-10 IJT(c) GG ACCESSION NR: AP5000359 S/0056/64/047/005/1989/1994
AUTHOR: Bar'yakhtar, V. G.; Savchenko, M. A.; Gani, V. V.; Ryabko, P. V.
TITLE: Coupled magnetoelastic waves in antifetromagnets with magnetic structure of the MnCO ₃ type
SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 5, 1964, 1989-1994
TOPIC TAGS: Antiferromagnetism, magnetostriction, polarization acoustic wave interaction, spin wave coupling, feridacoustic resonance
ABSTRACT: The substances investigated have weak farromagnetism and a rhombohedral lattice with two magnetic ions per unit cell. The Hamiltonian is written down in the form of a sum of the magnetic, elastic, magnetostriction, and in-

L 34547-65

ACCESSION NR: AP5000359

teraction energies, and it is shown that a transverse wave with polarization vector along the y axis does not interact with the two other acoustic waves, and that only this transverse wave interacts with the low frequency spin waves. The coupling between the sound and spin waves is particularly large at resonance when the spin wave frequency coincides with the frequency of the sound wave. The experimental feasibility of determining exchange integrals from ferroacoustic resonance in such substances is demonstrated. "In conclusion the authors thank O. V. Kovalev for valuable discussions." Orig. art. has:2 figures and 31 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk UkcSSR (Physicotechnical Institute, Academy of Sciences UkrSSR)

SUBMITTED: 03Jun64

ENCL: 00

SUB CODE: EM NP

NR REF SOV: 007

OTHER: 001

Card 2/2

L 00677-66 EPF(c)/EMP(z)/EMT(1)/EMT(m)/EMP(b)/EMA(d)/EMP(t) IJP(c) GG/WW/JD ACCESSION NR: AP5012569 UR/0181/65/007/005/1523/1528

AUTHOR: Savchenko, M. A.; Gann, V. V. 49, 55

TITLE: Coupled magnetoelastic waves in helicoidal magnetic structures

SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1523-1528

TOPIC TAGS: ferromagnetic resonance, spin resonance, acoustic resonance, magnetic structure

ABSTRACT: The authors consider coupled magnetoelastic waves in magnetic substances with helical distribution of the spins of the atoms in a constant external magnetic field, and discuss the possibility of experimentally determining the exchange integrals from ferroacoustic resonance! It is shown that the ferroacoustic and ferromagnetic resonance lines form doublets in helicoidal structures placed in a magnetic field parallel to the preferred axis. The distance between the doublet components increases in proportion to the magnetic field intensity. The ferromagnetic resonance frequencies for a magnetic field directed perpendicular to the preferred axis are investigated. It is pointed out in the conclusion that experiments of ferroacoustic resonance in helicoidal structures are best carried out in substances with small anisotropy, for example in chromium at temperatures above 120K, when ferroacoustic resonance frequencies should be of the order of 10° cps, although frequencies

Card 1/2

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	ACCESSION NR: AP5012569			ee jarense ja Mariana					10			
	cies on the order of 10 ¹¹ cps are ponent of the exchange integrals. terest in the work and for valuab figures.	"The a	authors	thank	V. G	. Bar'	rakhts	$\mathbf{x}^{\mathbf{\mu}}$	jin⊷			
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ACCESSION-NR: AP500	77686	s/0185/65/01	0/003/0263/0274	19 B
AUTHOR: Savchenko, M	1. A.; Hann, V. V. (Gann,	V. V.); Ryabko, P. V		-
TITLE: Ferroacoustic	resonance in magnets			
SOURCE: Ukrayins'kyy	fizychnyy zhurnal, v. 10	, no. 3, 1965, 263-2	171	
TOPIC TAGS: ferroacce wave excitation, accu	oustic resonance, ferromagnetic wave excitation, mag	netism, entiferroma netic moment	netism, spin	
ABSTRACT: The articl	le considers the excitation the boundary. The initi	n of magnetic (spin)	waves by an ex-	
be satisfied by the	exchange forces, the surfe determined. It is shown	ce-enisotropy Pield	and the surface	
netic moments of the	sublattices is excited no	ar the boundary of	milferromagnets	
this case the depth of	ts are at an angle with a of the distortion of the m	egnetic structure es	udla several.	
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coupled oscillations occurri						
are made of resonance of ant antiferromagnets in a transv	iferromagnets	with mirror	sublatifice	nymetry	and for	
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ASSOCIATION: Fizyko-tekhnic	hnyy instytut	an ursr, kb	arkiv [Fizi	lo-tektud.	spankti.	
institut AN UkrssR] (Physica	rtechnical Inst	itute, AN U	icresr}			
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ACC NR: AP6036951

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SOURCE CODE: UR/0181/66/008/011/3167/3172

AUTHOR: Gann, V. V.

ORG: Physicotechnical Institute AN UkrSSR, Kharkov (Fiziko-tekhnicheskiy institut)

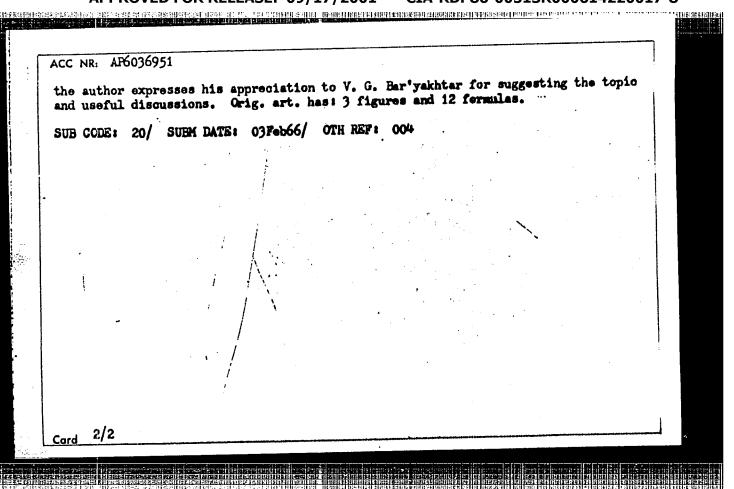
TITLE: Nonuniform resonance in a ferromagnetic plate

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3167-3172

TOPIC TAGS: ferromagnetic resonance, dipole interaction, magnetization

ABSTRACT: The paper considers nonuniform oscillations of magnetization in a ferromagnetic plate, taking into account both the dipole-dipole and the nonuniform exchange interaction in the case where both of these types of interaction are substantial, namely, in a thin film, when the wave vector is not orthogonal to the film surface. Both natural and induced oscillations of the ferromagnetic plate are discussed. The limits of applicability of the approximation due to C. Kittel (Phys. Rev., 110, 1295, 1958) and L. Walker (Phys. Rev., 105, 390, 1957) are determined. A simultaneous consideration of dipole interaction and spatial dispersion becomes necessary when which is being some limiting frequency below which only resonance on Walker modes is observed, and ω_1 being a limiting frequency of Walker modes), and k_1 is sufficiently large (k_1 being a wave vector with components k_X and k_Y). Under these conditions, new resonance frequencies appear which can be observed in thin films prepared of material with a small magnetic moment relaxation constant. In conclusion,

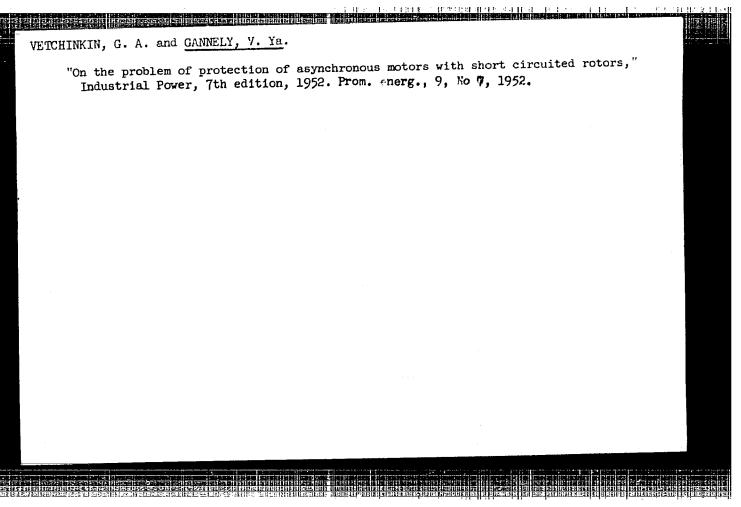
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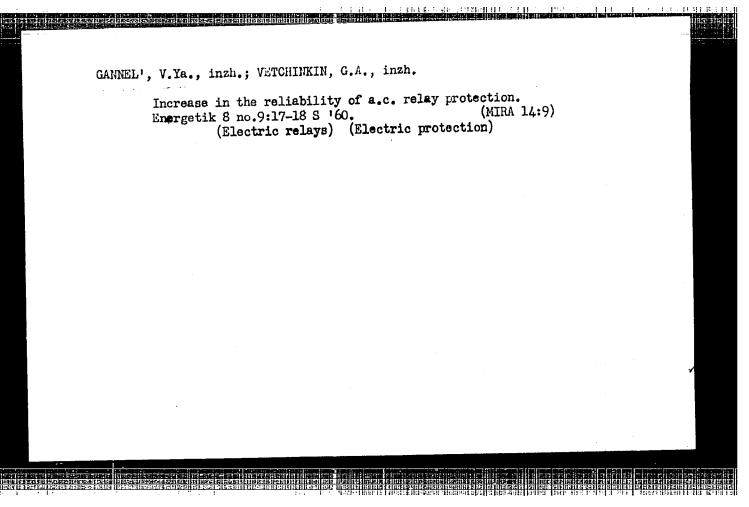


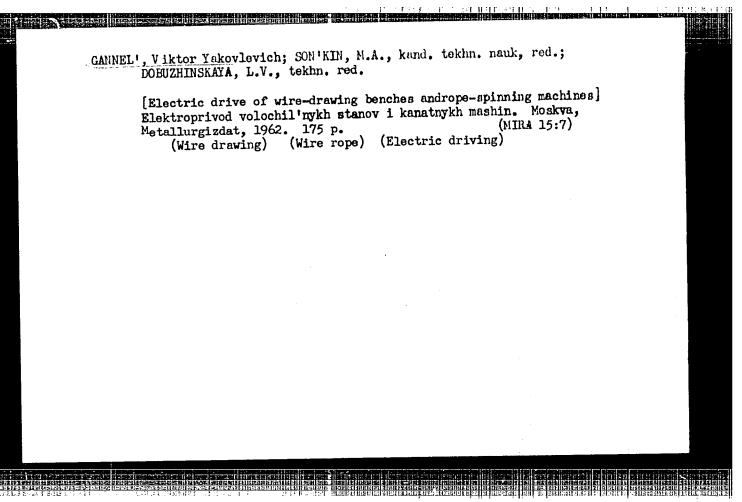
LIVSHITS, D.S.; GANNEL', V.Ya.; NAYFEL'D, M.R.; ZEYLIDZON, Ye.D.

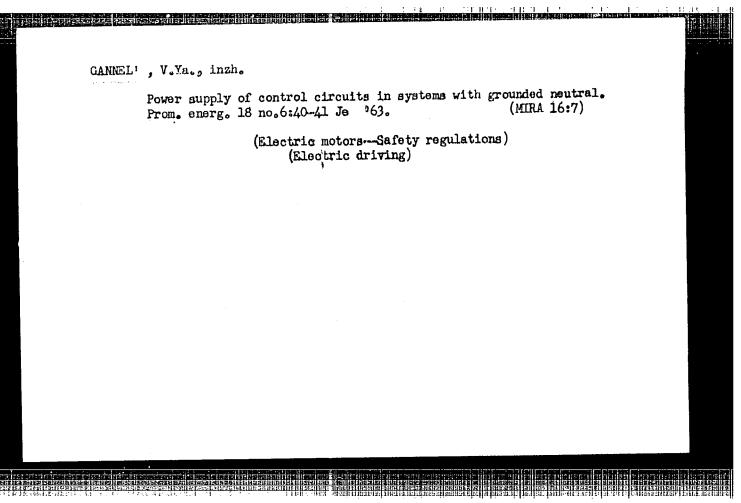
Power supply of control networks in systems with grounded neutral line. Prom. energ. 20 no.9:12-18 S '65. (MIRA 18:9)

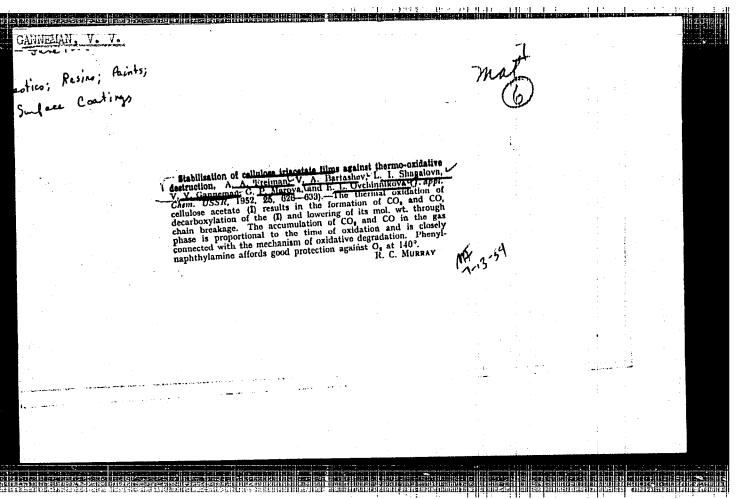
1. Gosudarstvennyy institut po proyektirovaniyu elektrooborudovaniya dlya tyazheley promysylennosti (for Livshits). 2. Proyektno-konstrukorskiy institut Pishchepromavtomatika (for Gannel'). 3. Moskovskoye eksperimental'noye otdeleniye Gosudarstvennogo proyektnogo instituta tyazheley elektricheskoy promyshlennosti (for Nayfel'd). 4. Gosudarstvennyy proyektnyy institut po energetike i elektrifikatsii SSSR (for Zeylidzon).











SMDLKIN, G., kandidat tekhnicheskikh nauk; ASTAKHOV, A., inzhener;
DANILICHEV, V., inzhener; GANNERKO, G., laborant.

Increasing engine economy by switching out separate cylinders.
Avt. transp. 34 no.8:15-16 Ag '56.

(MLRA 9:10)

1. Chelyabinskiy politekhnicheskiy institut.

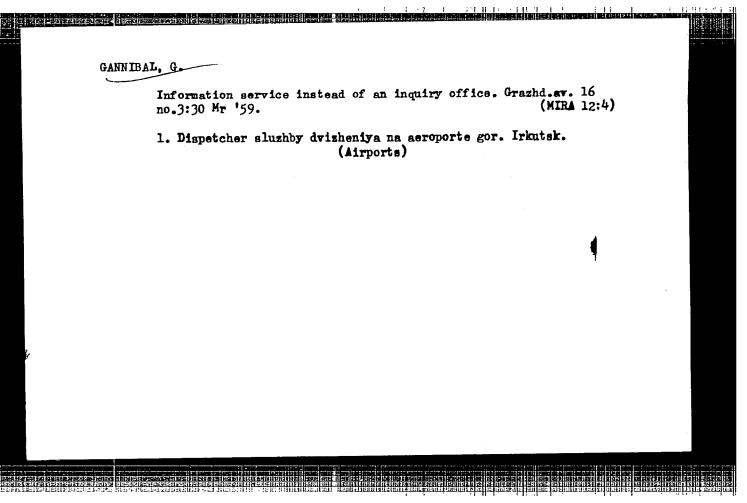
(Automobiles--Engines)

TSAREV, B.A.; GANNEMAN, V.V.; MARTYSH, G.G.; YAKOVLEVA, T.P.

Use of polyvinyl alcohol in photographic enulsions. Trudy LIKI no. 5:159-164 159. (MIRA 13:12)

1. Kafedra tekhnologii proizvodstva kinofotomaterialov.

Leningradskogo instituta kinoinzhenerov. (Photographic emulsions) (Vinyl alcohol)



GANNICH, L.O. [Hannych, L.O.]

Harvest with each KU-2A combine five to six hectares in a day.

Mekh. sil'.hosp. 12 no.8:3 Ag '61.

1. Glavnyy inzh. Nikopol'skogo rayonnogo otdeleniya

"Sel'khoztekhnika", Dnepropetrovskoy oblasti.

(Corn picker (Machine))

GANNICH, L.O. [Hannych, L.O.]

We are harvesting corn with machines only. Mekh. sil'. hosp. 13
no.7:3-5 Jl '62. (MIRA 17:3)

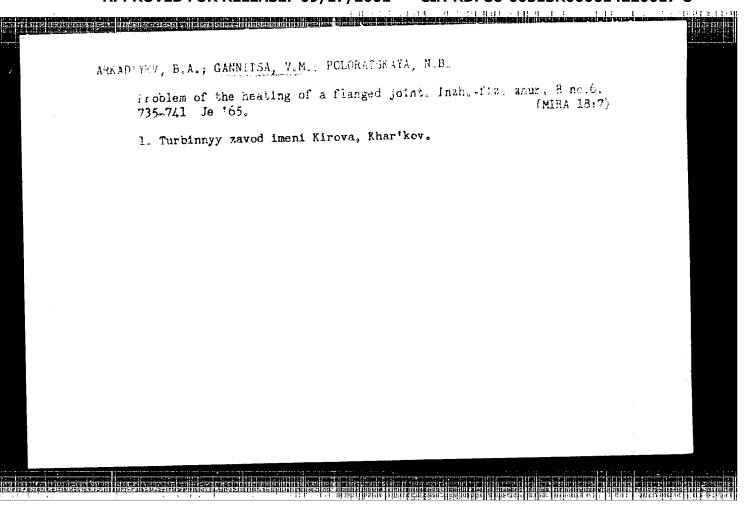
1. Predsedatel' Nikopol'skogo rayonnogo ispolnitel'nogo komiteta,
Dnepropetrovskoy oblasti.

ARKAD'YEV, B.A., inzh.; CAIRNITSA, V.M., inzh.; POLTORATSKAYA, N.B., inzh.

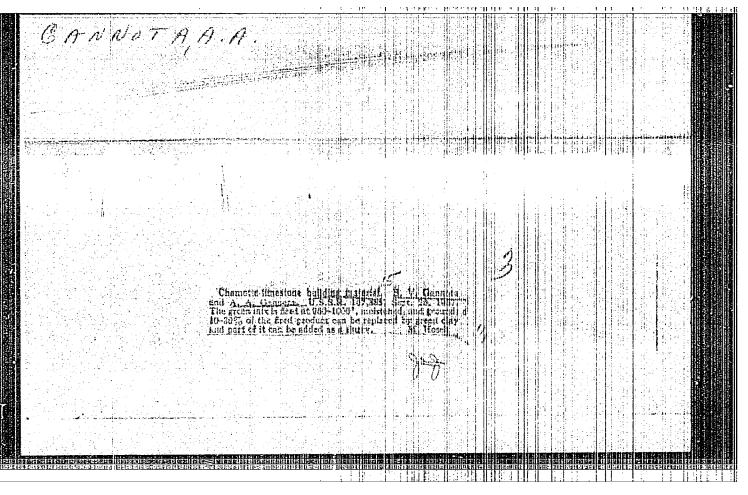
Calculation of the heating of the flange connections of turbines. Teploenergetika li no.4:63-66 Ap '64.

(MIRA 17:6)

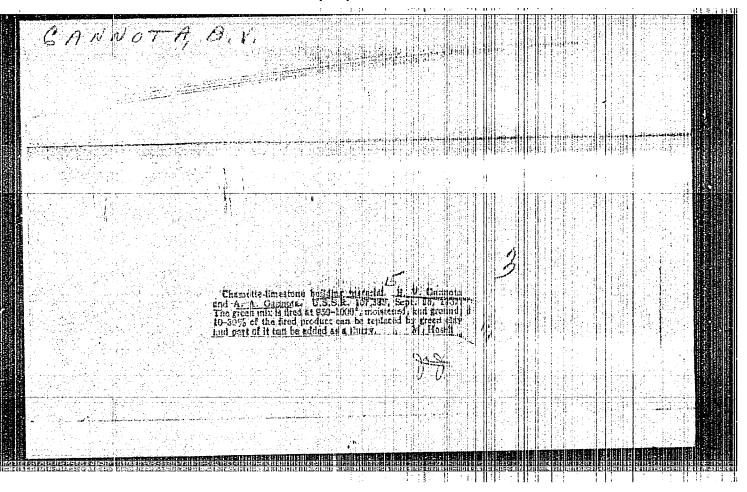
1. Khar'kovskiy turbinnyy zavod imeni Kirova.

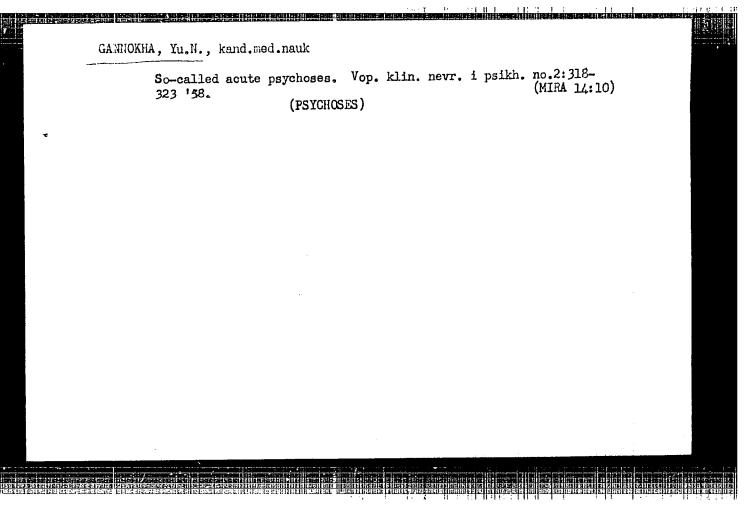


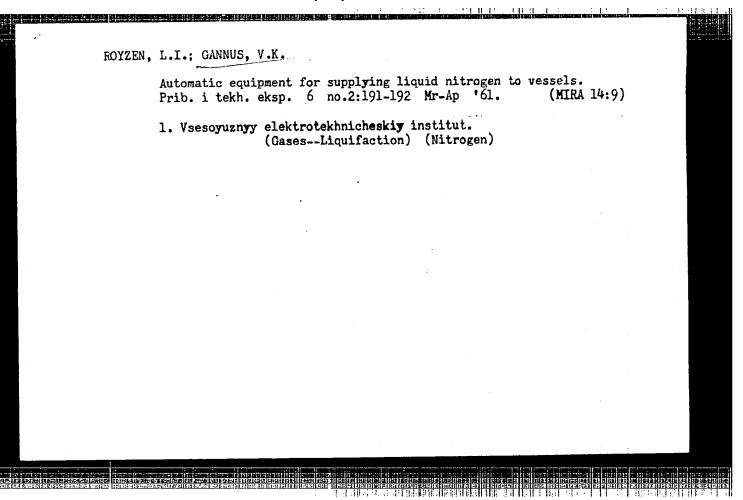
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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000614220017-8







GANNUSHKIN, M. S.; Docent M. Ye. AVVAKILOV; Instructor T. M. ZAHLOTSKIY

"Lugol's Therapy of Strangles in Horses," Military Veterinary Academy

"Bolezni Loshadey (Equine Diseases), Sbornik Rabot (Collection of Work)", Ogiz-Sel'khozgiz (? State Press for Agricultural Literature), 1947

Above article appears in Section V of the book - Tests and Practice, on p. 258 "Equine Diseases" is a collection of works on epizootiology, surgery, therapy, and laboratory and clinical practice in the treatment of equine diseases, most of which previously had been published in <u>Veterinariya</u> or in manuals issued by the Veterinary Administration of the Armed Forces USSR. It was compiled by A. Yu. BRANZVURG and A. Ya. SHAPIRO. Editor - A.M. LAKTIONOVA, State Press for Agricultural Literature.

GANNUSHKIN, M. S.

"Rinderpest," M.S.GARRUCHVIN (Author of this article)

Kurs Spizocotologiy

Course in epizoctiology. Fifth Edition. Moscow, Agricultural Publishing

House, 1949. PP. 304-309

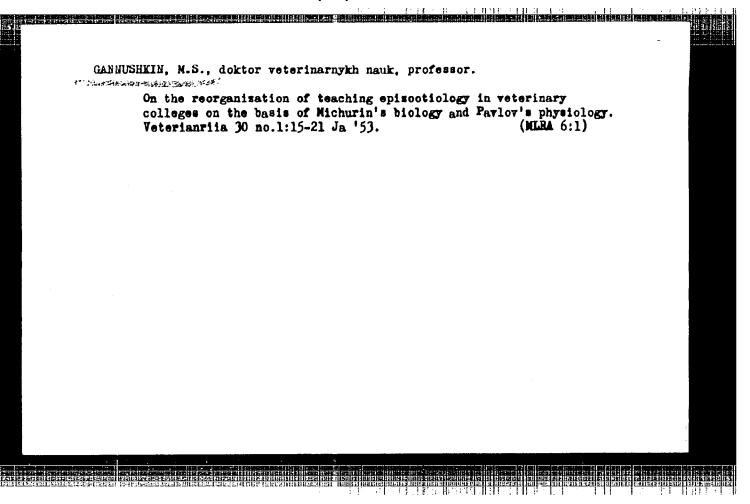
A textbook for agricultural technical schools. Source: Vet., 26, No 9, 1949.

USSR/Medicine #eterinary - Infectious Diseases "Factors of the External Medium in the Epizooti- ology of Infectious Diseases," Prof M. S. Gennushkin Discusses changes of virulence which bacteria under- po outside of the organism, in passing through the organism of weak animals which are infected first, under artificial conditions created in the labora- tory, etc. Emphasizes that bacteria are external factor with respect to the organism and states 190763 USSR/Medicine (Veterinary) - Infectious Diseases (Contd) that G. Bosh'yan underestimates role of the organ- ism in infection and overestimates that of bac- teria and their various stages. Rozhkov makes the opposite error in the case of equine infectious samemia and lays undue stress on the state of the animal's organism. In the case of this particular disease, Bosh'yan is influenced by Rozhkov's views. 190763			D1 100@0	29	
Infectious Diseases edium in the Epizoo es," Prof M. S. No 3, pp 7-11 ence which bacteria in passing throug hich are infected if s created in the la t bacteria are exte organism and state organism and state stimates that of ba ages. Rozhkov make of equine infectio ss on the state of case of this parti enced by Rozhkov's	GANNUGHKIN, M. S. PROF				. X
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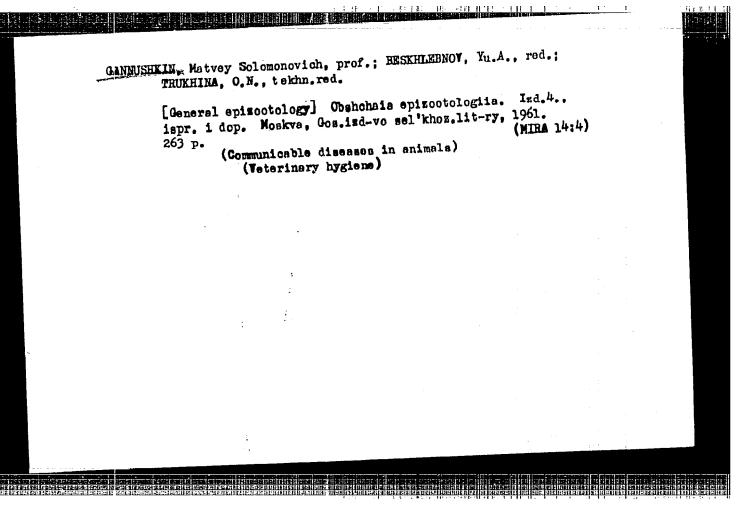
brucellar serum. It was demonstrated that B in a dose of 0.3 g. constitutes a good preparation for the treatment of infectious pleuropneumonia

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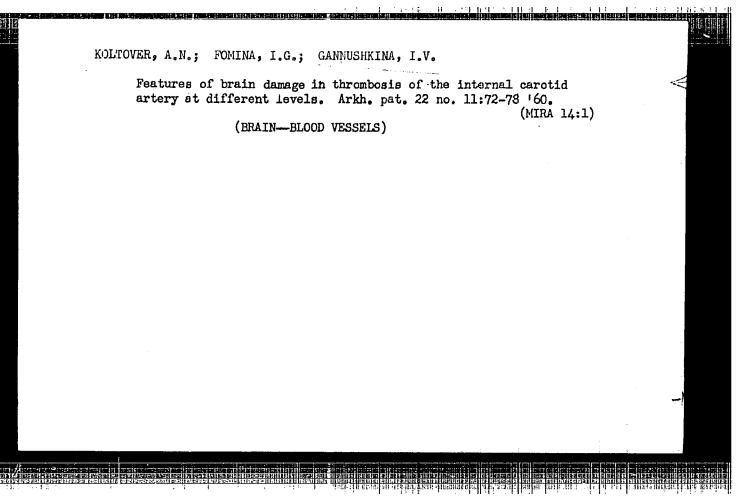
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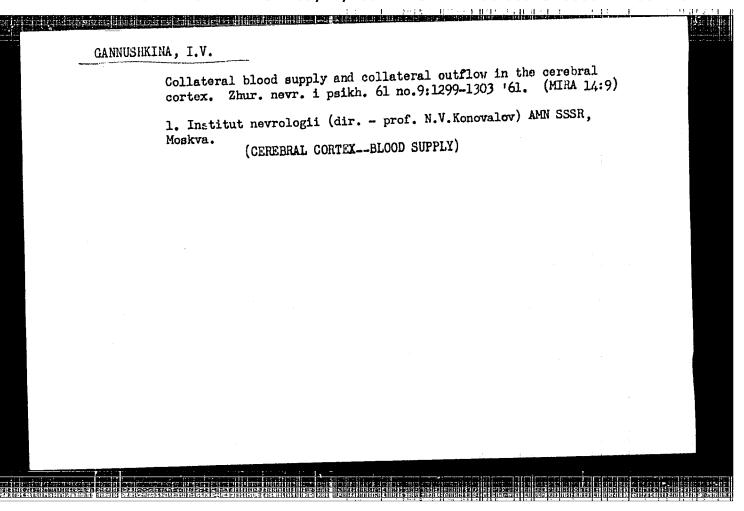


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